



Appl No. 10/671,137

Response dated February 13, 2006

Reply to Office Action of Sept. 15, 2005

IN THE CLAIMS:

Please amend the claims to read as follows:

1. (Currently Amended) A sub for delivering a gauge down a well bore, comprising:
  - a. a sub body, having first and second ends attachable to sections of pipe;
  - b. a first flow bore through the sub body for allowing fluid within the sections of pipe to flow through the sub body ~~a chamber formed in the sub body for receiving a gauge therein; and~~
  - c. a chamber formed in the sub body, which has no fluid contact with the flow bore in the sub body;
  - d. ~~c.~~ a gauge receivable into the chamber and secured therein; and
  - e. ~~d.~~ at least one port in the wall of the sub body in fluid communication with the chamber to allow fluid around the sub body to flow in and out of the chamber so that fluid conditions can be recorded by the gauge.
2. (Original) The sub apparatus in claim 1, further comprising a flow bore through the sub body for allowing fluid within the pipe to flow through the sub body.
3. (Original) The sub apparatus in claim 1, wherein the gauge is threadably secured into the chamber.
4. (Original) The sub apparatus in claim 1, wherein the gauge rests on a floor of the chamber when the gauge has been threadably secured in the chamber.
5. (Original) The sub apparatus in claim 1, wherein the gauge is of the type which records various conditions in the well bore, including temperature, pressure, viscosity, and other conditions.
6. (Original) The sub apparatus in claim 1, wherein the sub would be dimensioned to be threaded onto various sizes of pipe with various gauges of threads.
7. (Original) The sub apparatus in claim 1, wherein the port through the sub wall would comprise at least three ports, equidistant apart, each port allowing fluid contact from fluid outside the sub into the chamber.
8. (Original) The sub apparatus in claim 1, further comprising a shock absorbing

tip on the lower end of the gauge for resting on a floor of the chamber and absorbing impact when the sub is lowered down the well bore.

9. (Currently Amended) A sub apparatus for protecting a gauge being delivered down a well bore, comprising:

- a. a sub body, having first and second ends threadably attachable to sections of pipe above and below the sub apparatus;
- b. a first flow bore through the sub body for allowing fluid within the sections of pipe to flow through the sub body ;
- c. a chamber formed in the sub body, which has no fluid contact with the flow bore in the sub body;
- d. a gauge receivable into the chamber and secured therein;
- d. a plurality of ports formed in the wall of the sub body allowing fluid around the outside of the sub body to flow in and out of the chamber so that fluid conditions can be recorded by the gauge.

10. (Original) The sub apparatus in claim 9, wherein the gauge includes a cushion on its lower end to rest on a floor of the chamber when the gauge has been threadably secured in the chamber.

11. (Original) The sub apparatus in claim 9, wherein the gauge is of the type which records various conditions in the well bore, including temperature, pressure, viscosity, and other conditions.

12. (Original) The sub apparatus in claim 9, wherein the sub would be dimensioned to be threaded onto various sizes of pipe with various gauges of threads.

13. (Original) The sub apparatus in claim 9, wherein an upper end of the gauge is threadably engageable into the upper end of the chamber for securing the gauge in place in the chamber.

14. (Original) A sub apparatus for protecting a gauge being delivered down a well bore, comprising:

- a. a sub body, having first and second ends threadably attachable to sections of pipe

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above and below the sub apparatus;

b. a flow bore through the sub body for allowing fluid within the sections of pipe to flow through the sub body;

c. a chamber formed in the sub body for receiving a gauge which records conditions within the well bore therein, but has no fluid contact with the flow bore through the sub body; and

d. a plurality of ports formed in the wall of the sub body allowing fluid around the outside of the sub body to flow in and out of the chamber so that fluid conditions can be recorded by the gauge.

15. (Original) The sub apparatus in claim 9, further comprising a flow bore through the sub body for allowing fluid within the sections of pipe to flow through the sub body.